Shuxin Ding

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Education

Ph.D. Candidate, School of Automation, Beijing Institute of Technology, Beijing, 2012-present, GPA 3.6/4.0. Adviser: Guoping Liu.

Joint Ph.D. Student, Center for Applied Optimization, Industrial and Systems Engineering, University of Florida, Gainesville, FL, 2016.9-2017.9. Adviser: Panos M. Pardalos.

B.Eng. in Automation, Beijing Institute of Technology, Beijing, 2008-2012, GPA 3.64/4.0.

B.Eng. in Electronic and Information Engineering, Exchange Student, The Hong Kong Polytechnic University, Hong Kong, 2011, GPA 4.0/4.0.

Research Interests

Facility location, Stochastic Optimization, Robust Optimization, Evolutionary Algorithms, Risk Management, Multi-objective Optimization.

Publications

S. Ding, C. Chen, B. Xin, P. M. Pardalos. "A bi-objective load balancing model in a distributed simulation system using NSGA-II and MOPSO approaches". *Applied Soft Computing*. 2018, 63, 249-267.

S. Sun, S. Ding. "Bunker hedging with Expected Loss Control by buffered Probability of Exceedance and Conditional Value-at-Risk". *In IAME 2017 Conference*. Kyoto, Japan.

S. Ding, C. Chen, B. Xin, J. Chen, "Status and progress in deployment optimization of firepower units". *Kongzhi Lilun Yu Yingyong/Control Theory and Application* 2015, 32(12), 1569-1581.

Z. Sun, S. Ding. "Research on standardized development method of scenario for combat information simulation system". *In 2014 33rd Chinese Control Conference (CCC)*. IEEE, 2014: 6298-6303.

S. Ding, C. Chen, J. Chen, B. Xin, "An improved particle swarm optimization deployment for wireless sensor networks". *Journal of Advanced Computational Intelligence and Intelligent Informatics*, 2014, 18(2), 107-112.

Presentations

The 9th China-Japan International Workshop on Information Technology and Control Applications, Beijing, China, July 2013.

Research Experience

Optimization and Decision making in Networked System Deployment under uncertain environment, 2015-present.

Implemented a risk-averse rule to evaluate different facility location models through predefined scenarios

Established covering location models with given distributions of demand points in different scenarios

Programmed Matlab files via YALMIP and solved using CPLEX

Optimization and Decision making in Networked System Deployment under dynamic environment, 2014-2015.

Implemented a node deployment system with dynamic environment including nodes' disruptions

Established a maximal expected covering location model as planar location model and solved by Evolutionary Algorithms

Developed an user interface system by VC++ with Oracle

Teaching

Beijing Institute of Technology

Final Year Project (B.Eng.): Instructor Assistant, 2014.

Wings' Project funded by Beijing Municipal Commission of Education: Instructor, 2013-2014.

Miscellaneous

C/C++, Visual Studio, Matlab, Cplex, Yalmip, SQL, Oracle, Python, SPSS, VHDL.

Honors and Awards

JACIII Young Researcher Award, 2017.

Second Prize in National Postgraduate Mathematic Contest in Modeling, 2013.

Outstanding Postgraduate Student, 2012-2013.

Third Prize in the Programming Contest in Beijing Institute of Technology, 2012/2013.

Second Prize in National Undergraduate Electronic Design Contest, 2011.

Five-time recipient of People's Scholarship in Beijing Institute of Technology, 2008-2012.